

O2 delig potential to emit for CO
4/27/07

Base data is daily production and emission data from July 2005 through May 2006

Used days when production was “normal” (over 1000 tons per day, 239 days)

Average CO emission factor is 0.20 lbs per ton
Standard deviation is 0.05 lb/ton

An emission factor with a 95% confidence level =
average + 2 standard deviations = 0.30 lb/ton.

Average production rate is 48.4 tons pulp per hour
Standard deviation is 3.9 tons pulp per hour

A production rate with a 95% confidence level =
average + 2 standard deviations = 56.2 tons pulp per hour

Hourly PTE =
 $56.2 \text{ tons pulp per hour} \times 0.30 \text{ lb. CO per ton} = 16.8 \text{ lb per hour}$

Annual PTE =
 $56.2 \text{ tons pulp per hour} \times 8760 \text{ hours per year} \times 0.30 \text{ lb. CO per ton} / 2000 \text{ lb/ton} = 73.8 \text{ tons CO/year.}$
(this is a conservative production estimate – approximately 30% greater than actual 2006 production).